

# MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION							
Distributor:	Paragon Professional Pest Control Products	Address:	3635 Knight Road, Suite 7 Memphis, TN 38118	Emergency Phone:	CHEMTREC 1-800-424-9300	Date Prepared:	02/02/09
SECTION 1 - CHEMICAL PRODUCT INFORMATION							
Product Name:	Demize EC	Chemical Family:	Terpenoid; Benzodioxole	Formula:	C <sub>19</sub> H <sub>26</sub> O; C <sub>19</sub> H <sub>30</sub> O <sub>5</sub>	EPA Registration No.:	2724-769
Chemical Name/Synonym:	3,7-Dimethyl-1,6-octadien-3-ol; 5-[2-(2-butoxyethoxy)ethoxymethyl]- 6-propyl-1,3-benzodioxole	RF Number:	2110				
SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS							
Component (chemical, common name)	CAS Number	Weight	Tolerance	Component (chemical, common name)	CAS Number	Weight	Tolerance
Linalool	78-70-6	37.0%	-	Piperonyl Butoxide	51-03-6	40.0%	-
SECTION 3 - HAZARD INFORMATION							
<b>PRECAUTIONARY STATEMENTS</b> <b>DANGER - KEEP OUT OF THE REACH OF CHILDREN</b> Corrosive, causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield or safety glasses. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.							
PRIMARY ROUTE OF ENTRY	Dermal/Eye: Yes.	Oral: No.	Inhalation: Yes.	OTHER TOXICOLOGICAL INFORMATION	Skin Irritation:	Moderate irritant.	
ACUTE TOXICITY	Oral: Harmful if swallowed.	Dermal: No specific hazard identified.	Inhalation: No specific hazard identified.		Eye Irritation:	Corrosive, causes irreversible eye damage.	
					Sensitizer:	Not a skin sensitizer.	
SECTION 4 - FIRST AID MEASURE							
Eye:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or doctor for treatment advice.			Ingestion:	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.		
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.			Not to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage.		
SECTION 5 - FIRE FIGHTING MEASURES							
NFPA:	Health: 3.	Fire: 2.	Reactivity: 0.	Special Protective Equipment:	Firefighters should wear full protective clothing including self-contained breathing apparatus.		
Flammability Class:	Class IIIA Combustible liquid.			Fire Fighting Procedures:	Normal procedures. Do not allow fire fighting water to escape into waterways or sewers.		
Flash Point:	> 150°F			Combustion Products:	Products of combustion are principally carbon dioxide, carbon monoxide, and water		
Explosive Limit (% of Volume):	Not Available.						
Extinguishing Media:	Dry Chemical, CO <sub>2</sub> , Foam.						
Unusual Fire/Explosion Hazards:	None Known.						
SECTION 6 - ACCIDENTAL RELEASE MEASURES							
Steps to be taken:	Remove all sources of ignition. See section 8 for Personal Protective Equipment recommendations. Do not allow spill to enter water ways inhabited by aquatic organisms. Soak up with absorbent material and place in a suitable container for disposal.			Absorbents:	Clay granules, dirt, or equivalent.		
				Incompatibles:	None known.		
SECTION 7 - HANDLING AND STORAGE							
Handling:	Do not get in eyes, on skin or on clothing. Corrosive, causes irreversible eye damage. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.				Storage:	Do not contaminate water, food, or feed by storage. Store in a dry, cool place.	
SECTION 8 - EXPOSURE CONTROL/PERSONAL MEASURES							
Exposure Limits:	Not available.			Personal Protective Equipment:	Prevent contact with eyes by wearing protective goggles. Depending upon application a face shield may be necessary. Wear chemical resistant gloves. Take appropriate precautions to prevent contact with clothing. Remove contaminated clothing and wash before reuse.		
Ventilation:	Use sufficient general ventilation.						
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES							
Appearance and Odor:	Clear pale yellow liquid with woody/floral odor.	Boiling Point:	Not known.	Melting Point:	Not applicable (liquid).	pH:	Not known.
Vapor Pressure (mm Hg):	> 0.4 mm Hg.	Vapor Density (Air = 1):	Not known.	Specific Gravity:	0.960		
Bulk Density:	8.0 lbs./gallon	Solubility:	Miscible.	Evaporation Rate:	Not known.		
SECTION 10 - STABILITY AND REACTIVITY							
Stability:	Stable.			Decomposition Products:	Products of combustion are principally carbon dioxide, carbon monoxide, and water.		
Reactivity:	Not reactive.			Hazardous Polymerization:	Will not occur.		
Incompatibility w/ Other Materials:	None Known.						
SECTION 11 - TOXICOLOGICAL INFORMATION							
ACUTE TOXICITY	Acute oral toxicity (rat): LD50 4,508 mg/kg (males) and 5,546 mg/kg (females); 5,000 mg/kg (combined). Acute dermal toxicity: LD50 > 2,000 mg/kg. Acute inhalation toxicity: 4-hr LC50 > 2.2 mg/L. Eye irritation: Corrosive, causes irreversible eye damage. Dermal Sensitization: Not a sensitizer. Skin Irritation: Moderate irritant			CHRONIC TOXICITY [Specific to Active Ingredient(s)]	Linalool is considered Generally Recognized as Safe (GRAS) by US FDA. Linalool is used in fragrances, detergents and soaps up to a level of 1.5%. There has been no evidence to date for ocular or respiratory effects arising from perfume evaporation and no evidence to indicate any carcinogenic hazard.		
SUBCHRONIC TOXICITY [Specific to Active Ingredient(s)]	Linalool: In a 90-day study in rats the NOAEL > 250mg/kg bw/day.			Piperonyl butoxide: An increase in the number of benign liver tumors in mice fed piperonyl butoxide technical at doses which far exceeded any anticipated daily human intake. Independent and industry toxicology experts have reviewed the data and agree that the findings of the study do not indicate a health risk to humans.			
MUTAGENICITY [Specific to Active Ingredient(s)]	Linalool is not a mutagen.			Carcinogenicity:	NTP: No.	IARC: No.	OSHA: No.
	Piperonyl butoxide is not genotoxic in several tests including the Ames mutagenicity assay, chromosome aberrations in Chinese hamster ovary (CHO) cells, CHO/HGPRT assay with S9 activation, and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells.			DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]	Linalool: No data available		
				Piperonyl butoxide:	There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits. It is not considered to be teratogenic.		
SECTION 12 - ECOLOGICAL INFORMATION							
Linalool	Volatilizes from water surface with a half-life of 2.4 days in rivers. The Koc in soil is estimated to be 75 and it is expected to be highly mobile in soil. Half life in air expected to be 3.8 hours. It is not expected to adsorb strongly to sediments. It has low potential for bioaccumulation.			Piperonyl butoxide is highly toxic to fish. Do not discharge effluents containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing these components to sewer systems without previously notifying the local sewage treatment plant authority. Do not contaminate water by cleaning of equipment or disposal of wastes.			
SECTION 13 - DISPOSAL CONSIDERATIONS							
Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.							
SECTION 14 - TRANSPORT INFORMATION							
DOT49CFR Description:	Not applicable.			Freight Classification:	INSECTICIDES NOI Q/T POISON NMFC 102120 CL. 60.		
SECTION 15 - REGULATORY INFORMATION							
CERCLA (Superfund):	Not regulated.	SARA 311/312 HAZARD CATEGORIES	Immediate Health:	Yes.	Delayed Health:	No.	Fire: Yes.
RCRA:	Not regulated.		Sudden Pressure:	No.	Reactivity:	No.	

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional consideration.